



CJC
#10860
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re of

Victor Jay Liechty II

Patent No.

6,258,000

Issued:

July 10, 2001

For:

Penetration Enhancing Aerodynamically Favorably Arrowhead)
Penetration.

Examiner:

John A. Ricci

)
) Art Unit
) 3712
)
)
)
)
)

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that the following documents are being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on the 16 day of July 2001.

- Three Certificate of Corrections (in duplicate - 6 sheets total)
- Transmittal for the Certificate of Correction
- Postcard

Respectfully submitted,

JAY LIECHTY
Patent Owner/Applicant

1250 North 1750 West
Provo, UT 84604
(801) 374-1739

APPROVED

JUN 24 2002

FOR THE DIRECTOR OF USPTO

CERTIFICATE

JUL 24 2001

OF CORRECTION

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,258,000 B1
DATED : July 10, 2001
INVENTOR(S) : Victor Jay Liechty II

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 32,

Line 52, insert claims 67-74:

67. An arrowhead comprising:
- (a) a forward leading end;
 - (b) an arrowhead body having a central longitudinal axis, and an internal hollow cylinder that extends elongately for less than a majority of the length of the section of said arrowhead body that projects forwardly from an accompanying arrowshaft when said arrowhead is attached thereto;
 - (c) a pivotal blade connected to said arrowhead body so as to be enabled to rotate relative said arrowhead body, said pivotal blade having a cutting edge which extends to a forward terminus when said arrowhead is in a penetrating configuration; and
 - (d) a fixed blade having a cutting edge, said fixed blade cutting edge comprising:
 - (i) a forward terminus; and
 - (ii) a rearward terminus, wherein when said arrowhead is in said penetrating configuration said forward terminus of said fixed-blade cutting edge is located rearward of said forward leading end of said arrowhead and said rearward terminus of said fixed-blade cutting edge is located forward of said forward terminus of said pivotal blade cutting edge.
68. An arrowhead as recited in claim 67 wherein said pivotal blade and said fixed-blade are each housed within a blade slot.
69. An arrowhead as recited in claim 68 wherein the blade slot that has houses said fixed-blade and the blade slot that houses said pivotal blade communicate with each other.
70. An arrowhead as recited in claim 69 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade are substantially the same blade slot.
71. An arrowhead as recited in claim 68 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade are substantially different blade slots.
72. An arrowhead as recited in claim 71 wherein a line parallel to said central longitudinal axis intersects both said slots.
73. An arrowhead as recited in claim 68 wherein each said slot comprises a bounding sidewall, said sidewall of each said slot being substantially non parallel to each other.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,258,000 B1
DATED : July 10, 2001
INVENTOR(S) : Victor Jay Liechty II

Page 2 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

74. An arrowhead as recited in claim 73 wherein at least one sidewall of the slot housing said fixed-blade is not perpendicular to at least one sidewall to the slot housing said pivotal blade.

- In claim 22 replace "14" with -- 67 --.

- In claim 43 replace "43" with -- 40 --.

- In claim 44 replace "43" with -- 40 --

- In claim 45 replace "43" with -- 35 --.

AFTER CLAIM 74 ADD CLAIM 75:

75. An arrowhead as recited in claim 44 wherein said arrowhead is blade-opening arrowhead.

AFTER CLAIM 75 ADD CLAIMS 76-78:

76. An arrowhead as recited in claim 23 wherein said second blade is a fixed blade having a cutting edge disposed thereon.

77. An arrowhead as recited in claim 76 wherein said arrowhead is a blade-opening arrowhead.

78. An arrowhead as recited in claim 76 further comprising a shaft configured upon said arrowhead body so as to aid in fixedly attaching said second blade to said arrowhead body.

- In claim 46 replace "45" with -- 78 --.

AFTER CLAIM 78, ADD CLAIMS 79-81:

79. An arrowhead comprising:

(a) a forward leading end;

(b) an arrowhead body comprising:

(i) a central longitudinal axis;

(ii) a blade slot;

(iii) an exterior surface; and

(iv) a cutting edge integrally formed on said exterior surface, said cutting edge having a forward terminus that is displaced rearward of said forward leading end of said arrowhead; and

(c) a cutting blade having a cutting edge, said cutting blade being attached to said arrowhead body within said blade slot.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTIONPATENT NO : 6,258,000 B1
DATED : July 10 2001
INVENTOR(S) : Victor Jay Liechty IIIt is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:Column 32, line 52
~~AFTER CLAIM 66, INSERT CLAIMS 67-74:~~

67. An arrowhead comprising:
- (a) a forward leading end;
 - (b) an arrowhead body having a central longitudinal axis, and an internal hollow cylinder that extends elongately for less than a majority of the length of the section of said arrowhead body that projects forwardly from an accompanying arrowshaft when said arrowhead is attached thereto;
 - (c) a pivotal blade connected to said arrowhead body so as to be enabled to rotate relative to said arrowhead body, said pivotal blade having a cutting edge which extends to a forward terminus when said arrowhead is in a penetrating configuration; and
 - (d) a fixed blade having a cutting edge, said fixed blade cutting edge comprising:
 - (i) a forward terminus; and
 - (ii) a rearward terminus, wherein when said arrowhead is in said penetrating configuration said forward terminus of said fixed-blade cutting edge is located rearward of said forward leading end of said arrowhead and said rearward terminus of said fixed-blade cutting edge is located forward of said forward terminus of said pivotal blade cutting edge.
68. An arrowhead as recited in claim 67 wherein said pivotal blade and said fixed-blade are each housed within a blade slot.
69. An arrowhead as recited in claim 68 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade communicate with each other.
70. An arrowhead as recited in claim 69 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade are substantially the same blade slot.
71. An arrowhead as recited in claim 68 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade are substantially different blade slots.
72. An arrowhead as recited in claim 71 wherein a line parallel to said central longitudinal axis intersects both said slots.
73. An arrowhead as recited in claim 68 wherein each said slot comprises a bounding sidewall, said sidewall of each said slot being substantially non parallel to each other.
74. An arrowhead as recited in claim 73 wherein at least one sidewall of the slot housing said fixed-blade is not perpendicular to at least one sidewall of the slot housing said pivotal blade.

-In claim 22 replace "14" with --67--

MAILING ADDRESS OF SENDER:

Jay Liechty Jr.
1250 N. 1750 W.
Provo UT 84604

PATENT NO. 6,258,000

1 of 3

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,258,000
DATED : July 10 2001
INVENTOR(S) : Victor Jay Liechty II

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

AFTER CLAIM 66, INSERT CLAIMS 67-74:

67. An arrowhead comprising:
(a) a forward leading end;
(b) an arrowhead body having a central longitudinal axis, and an internal hollow cylinder that extends elongately for less than a majority of the length of the section of said arrowhead body that projects forwardly from an accompanying arrowshaft when said arrowhead is attached thereto;
(c) a pivotal blade connected to said arrowhead body so as to be enabled to rotate relative to said arrowhead body, said pivotal blade having a cutting edge which extends to a forward terminus when said arrowhead is in a penetrating configuration; and
(d) a fixed blade having a cutting edge, said fixed blade cutting edge comprising:
(i) a forward terminus; and
(ii) a rearward terminus, wherein when said arrowhead is in said penetrating configuration said forward terminus of said fixed-blade cutting edge is located rearward of said forward leading end of said arrowhead and said rearward terminus of said fixed-blade cutting edge is located forward of said forward terminus of said pivotal blade cutting edge.
68. An arrowhead as recited in claim 67 wherein said pivotal blade and said fixed-blade are each housed within a blade slot.
69. An arrowhead as recited in claim 68 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade communicate with each other.
70. An arrowhead as recited in claim 69 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade are substantially the same blade slot.
71. An arrowhead as recited in claim 68 wherein the blade slot that houses said fixed-blade and the blade slot that houses said pivotal blade are substantially different blade slots.
72. An arrowhead as recited in claim 71 wherein a line parallel to said central longitudinal axis intersects both said slots.
73. An arrowhead as recited in claim 68 wherein each said slot comprises a bounding sidewall, said sidewall of each said slot being substantially non parallel to each other.
74. An arrowhead as recited in claim 73 wherein at least one sidewall of the slot housing said fixed-blade is not perpendicular to at least one sidewall of the slot housing said pivotal blade.

-In claim 22 replace "14" with -67--.

MAILING ADDRESS OF SENDER:

Jay Liechty Jr.
1250 N. 1750 W.
Provo UT 84604

PATENT NO. 6,258,000

1 of 3

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,258,000
DATED : July 10 2001
INVENTOR(S) : Victor Jay Liechty II

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

-In claim 43 replace "31" with --40--.

-In claim 44 replace "43" with --40--.

-In claim 45 replace "43" with --35--.

AFTER CLAIM 74 ADD CLAIM 75:

75. An arrowhead as recited in claim 44 wherein said arrowhead is a blade-opening arrowhead.

AFTER CLAIM 75 ADD CLAIMS 76-78:

76. An arrowhead as recited in claim 23 wherein said second blade is a fixed blade having a cutting edge disposed thereon.

77. An arrowhead as recited in claim 76 wherein said arrowhead is a blade-opening arrowhead.

78. An arrowhead as recited in claim 76 further comprising a shaft configured upon said arrowhead body so as to aid in fixedly attaching said second blade to said arrowhead body.

-In claim 46 replace "45" with --78--.

MAILING ADDRESS OF SENDER:

Jay Liechty Jr.
1250 N. 1750 W.
Provo UT 84604

PATENT NO. 6,258,000

2 of 3

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,258,000
DATED : July 10 2001
INVENTOR(S) : Victor Jay Liechty II

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

AFTER CLAIM 78, ADD CLAIMS 79-81:

79. An arrowhead comprising:
(a) a forward leading end;
(b) an arrowhead body comprising:
 (i) a central longitudinal axis;
 (ii) a blade slot;
 (iii) an exterior surface; and
 (iv) a cutting edge integrally formed on said exterior surface, said cutting edge having a forward terminus that is displaced rearward of said forward leading end of said arrowhead; and
(c) a cutting blade having a cutting edge, said cutting blade being attached to said arrowhead body within said blade slot.
80. An arrowhead as recited in claim 79 wherein at least one hone bevel is configured adjacent said integrally formed cutting edge for at least a section of the length of said integrally formed cutting edge.
81. An arrowhead as recited in claim 79 having an integral cutting protrusion with said integral cutting edge formed thereon.

-In claim 50 replace "49" with --81 --.

-In claim 51 replace "47" with --79--.

-In claim 52 replace "47" with --79--.

-In claim 54 replace "47" with --79--.

-In claim 55 replace "47" with --79--.

-In claim 56 replace "47" with --79--.

-In claim 59 replace "47" with --79--.

MAILING ADDRESS OF SENDER:

Jay Liechty Jr.
1250 N. 1750 W.
Provo UT 84604

PATENT NO. 6,258,000

30f3

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,258,000
DATED : July 10 2001
INVENTOR(S) : Victor Jay Liechty II

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

-In claim 43 replace "31" with --40--.

-In claim 44 replace "43" with --40--.

-In claim 45 replace "43" with --35--.

AFTER CLAIM 74 ADD CLAIM 75:

75. An arrowhead as recited in claim 44 wherein said arrowhead is a blade-opening arrowhead.

AFTER CLAIM 75 ADD CLAIMS 76-78:

76. An arrowhead as recited in claim 23 wherein said second blade is a fixed blade having a cutting edge disposed thereon.

77. An arrowhead as recited in claim 76 wherein said arrowhead is a blade-opening arrowhead.

78. An arrowhead as recited in claim 76 further comprising a shaft configured upon said arrowhead body so as to aid in fixedly attaching said second blade to said arrowhead body.

-In claim 46 replace "45" with --78--.

MAILING ADDRESS OF SENDER:

Jay Liechty Jr.
1250 N. 1750W.
Provo UT 84604

PATENT NO. 6,258,000

No. of additional copies

2 of 3



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,258,000
DATED : July 10 2001
INVENTOR(S) : Victor Jay Liechty II

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

AFTER CLAIM 78, ADD CLAIMS 79-81:

- *79. An arrowhead comprising:
(a) a forward leading end;
(b) an arrowhead body comprising:
(i) a central longitudinal axis;
(ii) a blade slot;
(iii) an exterior surface; and
(iv) a cutting edge integrally formed on said exterior surface, said cutting edge having a forward terminus that is displaced rearward of said forward leading end of said arrowhead; and
(c) a cutting blade having a cutting edge, said cutting blade being attached to said arrowhead body within said blade slot.
80. An arrowhead as recited in claim 79 wherein at least one hone bevel is configured adjacent said integrally formed cutting edge for at least a section of the length of said integrally formed cutting edge.
81. An arrowhead as recited in claim 79 having an integral cutting protrusion with said integral cutting edge formed thereon.

-In claim 50 replace "49" with --81 --.

-In claim 51 replace "47" with --79--.

-In claim 52 replace "47" with --79--.

-In claim 54 replace "47" with --79--.

-In claim 55 replace "47" with --79--.

-In claim 56 replace "47" with --79--.

-In claim 59 replace "47" with --79--.

MAILING ADDRESS OF SENDER:

Jay Liechty Jr.
1250 N. 1750 W.
Provo UT 84604

PATENT NO. 6,258,000

3 of 3

No. of additional copies

